



VCA2011

Car Navigation Box

User Manual

Ver. 0.2-K_O



Thank you for purchasing VCA2011 Navigation Box.

Before you start operating navigation, please refer to the following tips.

1. Optional function would work once you connect external device.
2. Firmware updating should be finished within several minutes.
3. Remember to change the resolution value after changing the panel setting so that both of them will work correctly.
4. If you change setting of resolution or panel inappropriately, error of display or touching control would take place. Under the circumstances, please contact your distributor or agency and get a file named LCD92.inf. Put this file into your SD card and restart the navigation box. (please refer to page 30)

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Main Menu I



Map access



Microsoft Media Player access



HB, HS, VB adjusting



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Select Panel model



Select System resolution



Touching calibration



to next page



Adjusting, input code: 7777



1. RGB Adjust:





H-Balance—horizontal Balance of RGB image

H-Size—horizontal Size of RGB image

V-Balance—Vertical Balance of RGB image



Brightness—brightness of RGB image

H - Shift---RGB image horizontal moving

H - Scale----RGB image zoom in and zoom out

If the image is not in the middle, and you can't see the edge, please make an adjusting until you can see the complete image.

P.S.: When you adjusted to a wrong value, you might lost image, but as long as you didn't click "Save," please restart VCA2011 and you can reset the values.

2. CVBS Adjust

Please select correct CVBS protocol according to your monitor.



Width---width of CVBS image

Height---height of CVBS image

Brightness---brightness of CVBS image

Contrast---color contrast of CVBS image

If the image is not in the middle, and you can't see the edge, please make an adjusting until you can see the complete image.

P.S.: When you adjusted to a wrong value, you might lost image, but as long as you didn't click "Save," please restart VCA2011 and you can reset the values.



Panel, input code: 7777



Select the right panel model to match your car monitor in order to enable touching control and successful display.





Resolution, input code: 7777



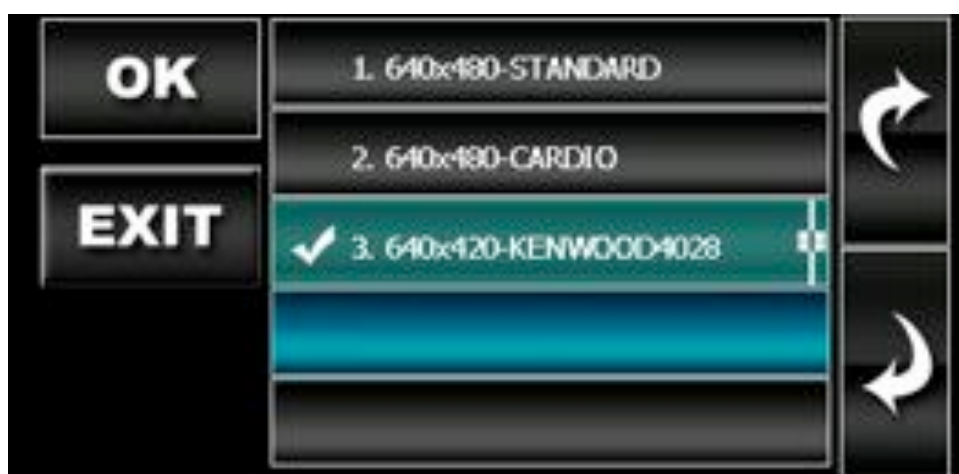
1st level, Select the correct resolution, and click “OK”:



2nd level, select the matched resolution with your panel, and click “OK” again, then the right setting is saved.



When your Kenwood panel's resolution is "640x420", please select "640x480" and you need to use map of resolution 640x480





Calibration

VCA2011 Touch Panel Calibration

+

Re-Calibration

EXIT

Touch “+” to ensure correct icon response.

Main Menu II



Setting page of System



Open Windows Explorer



Extra video input, or Digital TV access (Optional)



back to last page



Rear Camera access (Optional)



Setting page of Poi Detector (Optional)



Setting page of Radar Detector (Optional)



to next page



System

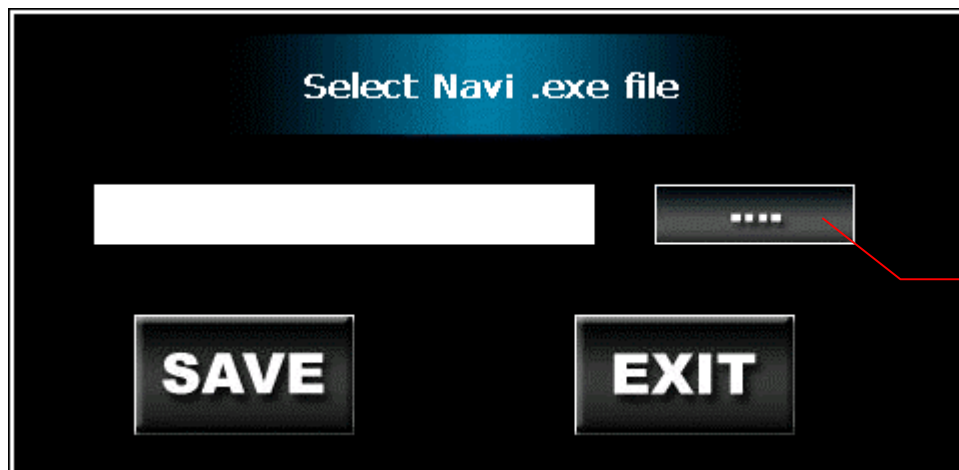
1. “Auto Run Navi ON” means the system would enter into the map software directly, otherwise it won’t.



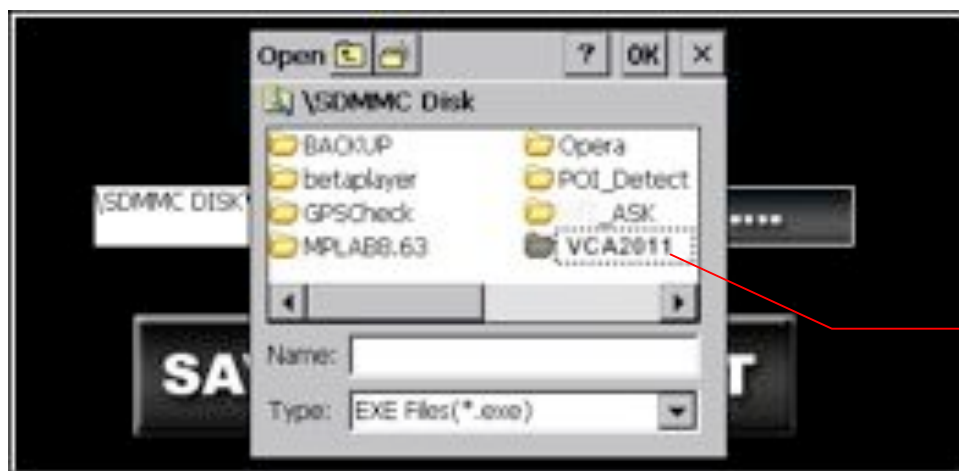
2. Steps of changing the map’s path:

First of all, please put the map’s file into SD card, and insert SD card to VCA2011, then, click icon “System” → “Navi Path”

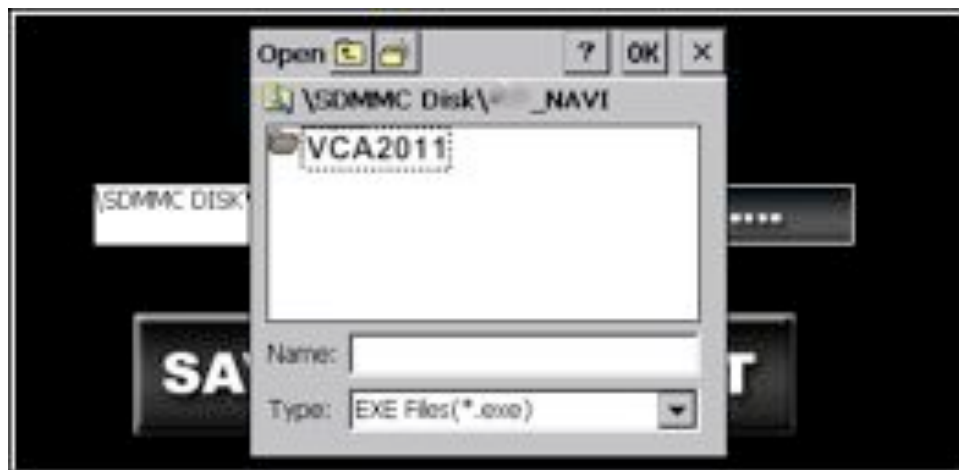




Browse, and select
"SDMMC Disk"



Enter correct folders
and continually find
".exe" file



Complete setting
your map's path



Note: the pre-setting of map's path is:

\\SDMMC DISK\\VCA2011_NAVI\\NAVI\\VCA2011_NAVI.EXE

By above steps, you can change map's path for your own VCA2011.

3. Steps of Firmware Updating:

Put the appropriate file to SD card and plug SD card into the device, then press the button of “Update Firmware” and wait for the system to finish Firmware updating.

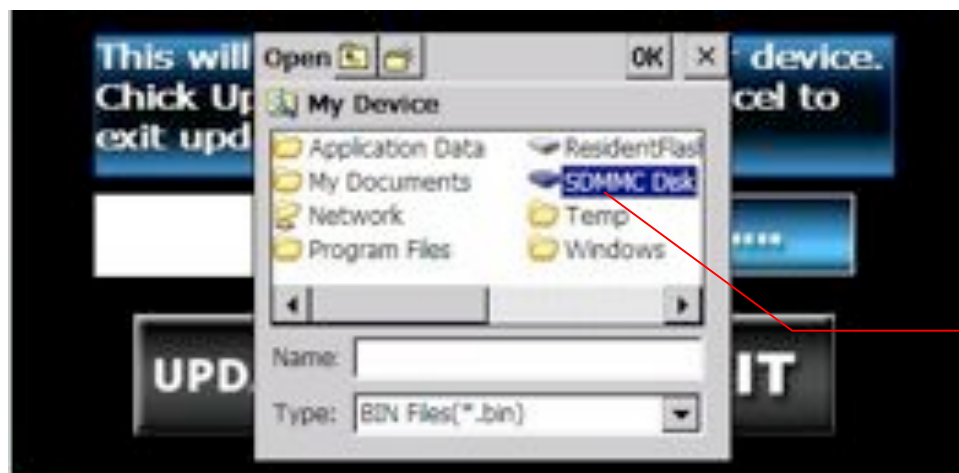
- a. Firmware updating should be finished several mintutes.**
- b. If you found updating stuck, please restart navigation box and try again.**
- c. During firmware updating, please don't operate VCA2011.**



Click Here



Click Here to open updating file



Search from SDMMC Disk



Look for a file of
“.bin” type

Click
“UPDATE;”
wait until it’s
counted “100”
and you see
“Updated

4. Shortcut to Menu On:

If “Shortcut to Menu On” is selected, it means when VCA2011 is navigating in the map, you can access main menu with pressing right bottom corner of your touch panel for more than 2 seconds. And when you access main menu, navigating will keep going.



Main Menu III



3G device (Optional)



Setting page of Wireless (Optional)



Select Browser to surf the Internet (Optional)



back to last page



Check System Time



Gyro system access (Optional)



Tracking system access (Optional)



to next page



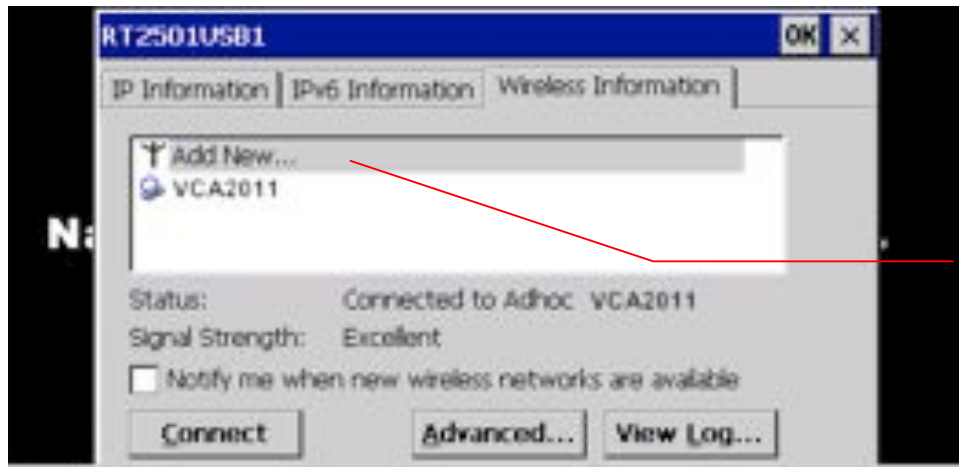
3G



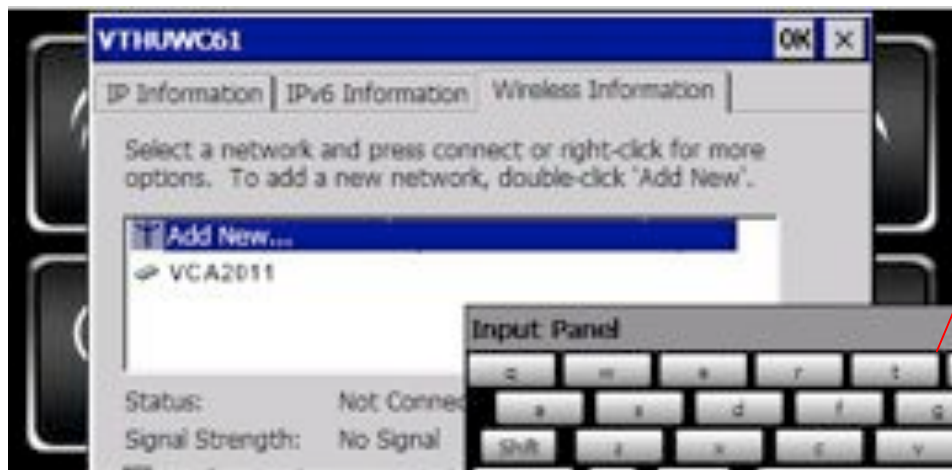
Use Input Panel to
key in the data



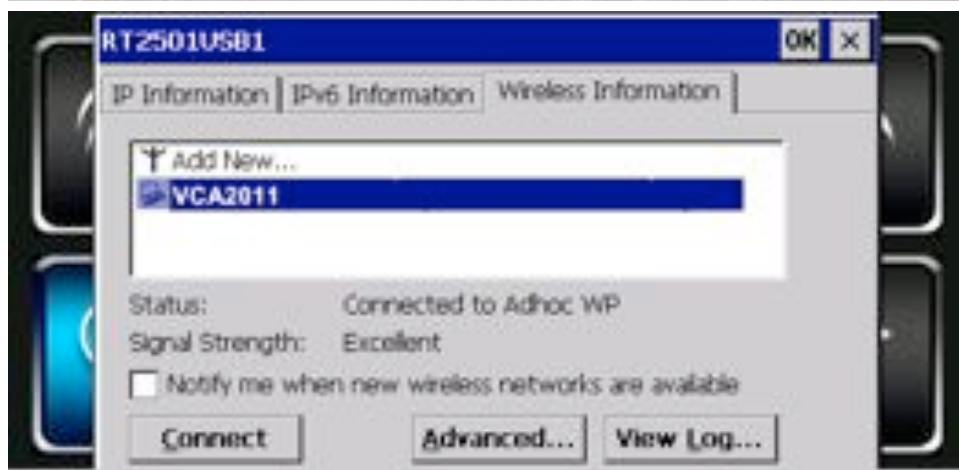
Wireless



Click Here to Add
New Wireless network



Use Input Panel to
key in the data and
select "OK" to save



After finishing the setting of Wireless Network, please select the network you need and "Connect."

IE

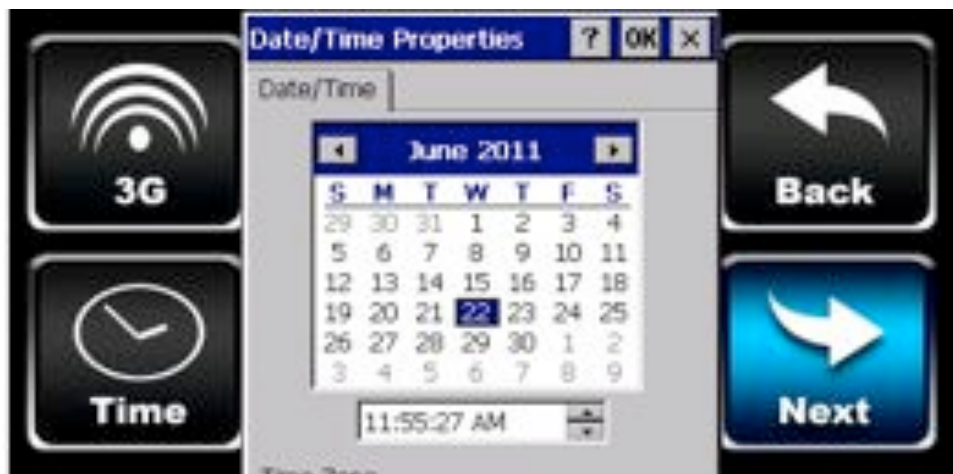


Select the browser with which you want to surf the Internet.



Time

Select correct zone, date, and time



Main Menu IV



Bluetooth system access (Optional)



Cursor Hide



Choose Power Mode for system



back to last page



Choose UART connecting device for system



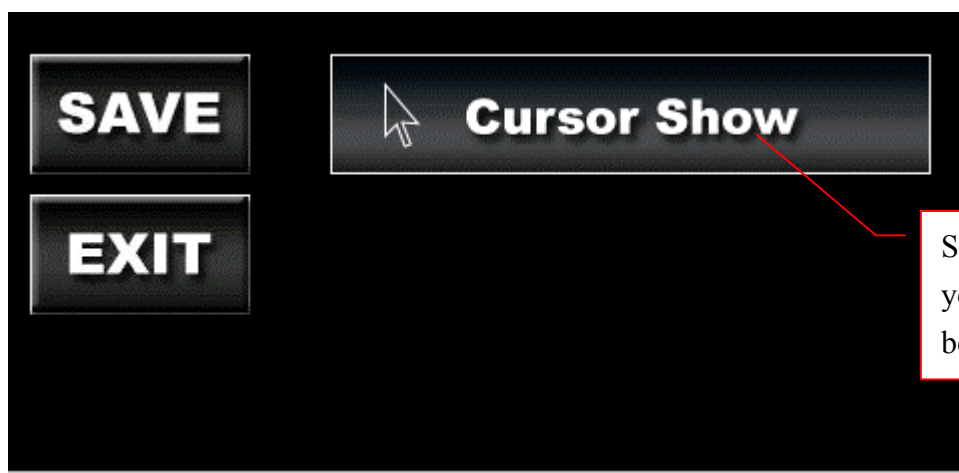
USB device



Check information of system



Cursor



Select "Cursor Show" if you would like cursor to be visible all the time.



Select "Cursor hide" if you would like cursor to be invisible when navigation box hasn't been operated for certain seconds.



Power Mode

Select Power Mode for device:



Reboot Mode: GPS back up only; once you restart VCA2011, GPS re-positions, and navigation restarts.

Suspend 1 Mode: When you restart VCA2011, navigation starts at where you turn off VCA2011.

P.S.: Suspend 1 Mode needs lots of power consumption when you turn off VCA2011; thus, it could lead car battery to run out of power if you leave your car not started for too long.

Suspend 2 Mode: TBD

Related Time Setting: TBD



UART

Select UART connecting device and save.



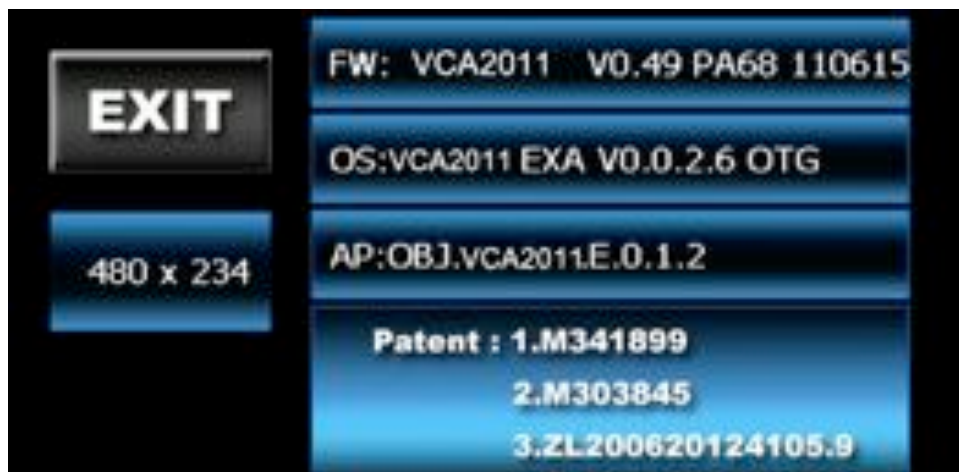
If you only have 1 device for Uart port, and didn't purchase "2-port Uart cable (optional)," please select your device on "UART A." If you have purchased

“2-port Uart cable,” please select correct device according which port (A or B) you connected to the device.



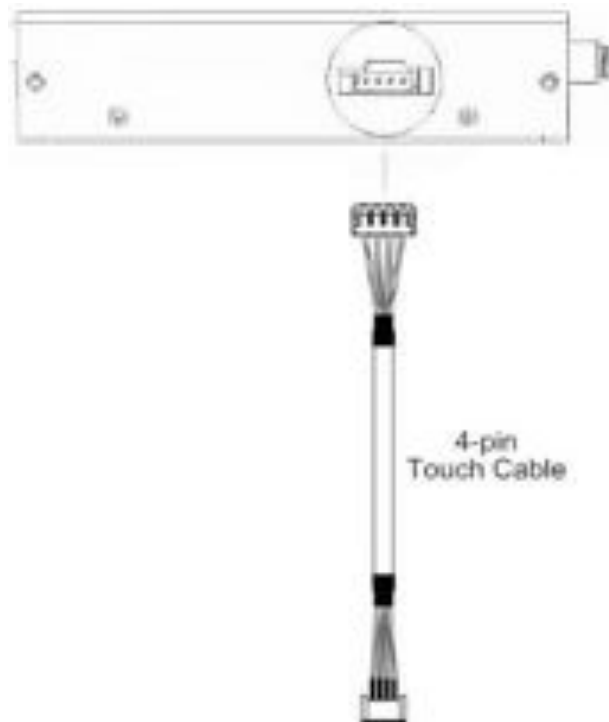
Info.

Check Firmware and OS version.



Installation





How to install the navigation box to your vehicle:

1. Plug the Map SD card into the navigation box.
2. Connect port "DC IN" (Navigation Box) with power cable; on power cable, ACC to Car ACC, BAT to Car battery, GND to ground, and MUTE to mute wire from monitor.

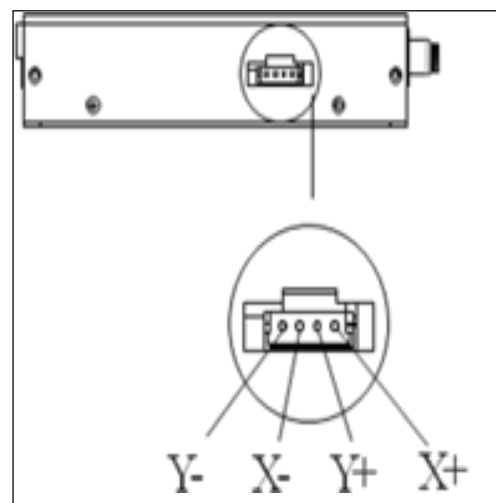
Note: please DON'T connect BAT and ACC together.

3. Connect GPS antenna, and put it where you can receive GPS signal well.

4. Link RGB (9 pin) cable, Data (8 pin) or AV cable to your monitor and use USB mouse to select the right panel.

Note: on RGB cable, you could see PIN 1 and PIN 2,
PIN 1=external navigation mute
PIN 2=rear camera trigger

5. If you have touch screen, connect 4-pin touch cable to the 4-pin hole on the side of navigation box.



Note: if you couldn't see any image after you link RGB cable to the monitor, please proceed the following steps:

- 1. Make sure that you connect AV cable well and USB mouse to adjust panel setting and try again.**
- 2. Enter your SD card with PC and find a file called, "LCD92.inf." Then, key in the right "resolution" and "panel," save and insert SD card to VCA2011 again.**

External accessories connecting:

A1. SPK port: for eternal speaker.

A2. UART port: for TMC, Bluetooth, Radar Detector, or Vehicle tracker device.

A3. USB HOST port: for USB mouse, Gyroscope or Wireless Network device.

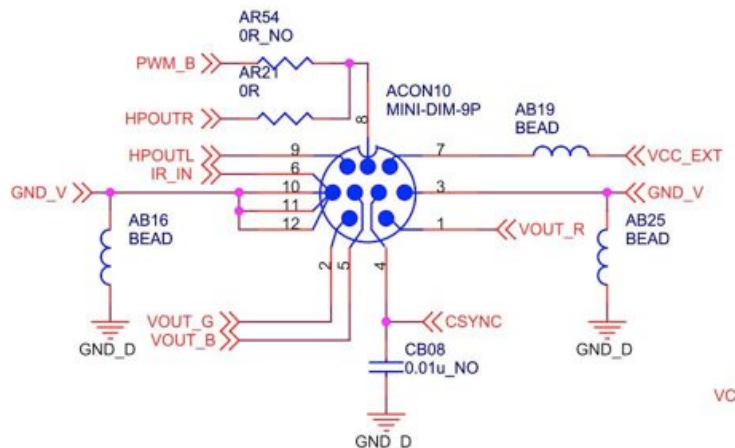
A4. USB port: PC connecting.

A5. IR port: for IR receiver or some RGB.

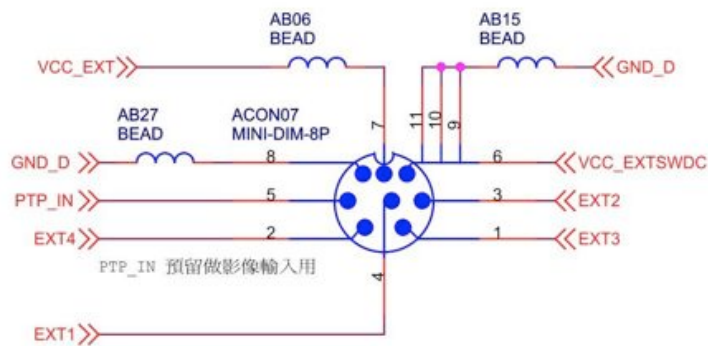
A6. V IN port: for Digital TV box or Rear camera.

Pin definition:

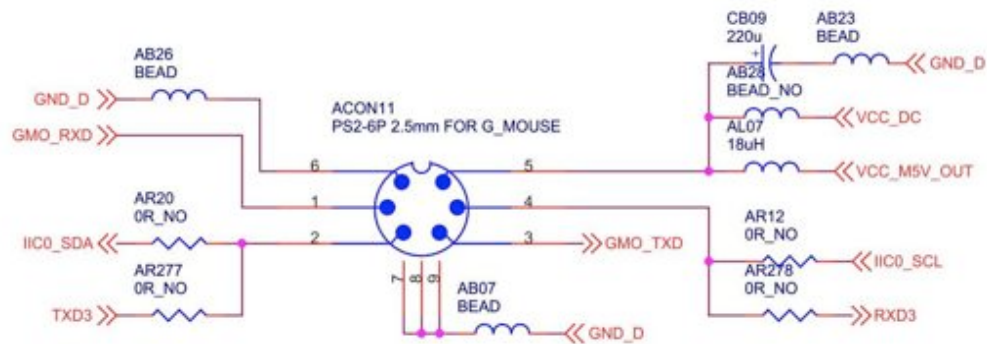
RGB:



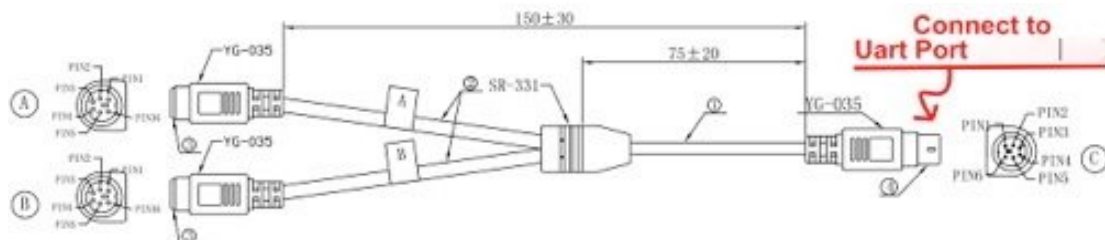
Data:



Uart:



2-port Uart cable (optional):



	Ⓒ	Ⓑ	Ⓐ
ACC	PIN6	PIN6	PIN6
RXD3	PIN5	PIN5	
TXD	PIN4		PIN3
TXD3	PIN3	PIN3	
RXD	PIN2		PIN5
GND	PIN1	PIN1	PIN1